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Model Number: SU20KX

SMARTONLINE™

SmartOnline 20kVA 16kW Modular 3-Phase UPS System, Double-Conversion UPS, SNMPWEBCARD Option, DB9 Serial



All Images (2) | Product PDF (//www.tripplite.com/shared/product-pages/EN/SU20KX.pdf)

- 20,000 VA (20kVA) 3-phase tower UPS
- 1+1 parallel capability allows for system redundancy or increased capacity
- Low THDi reduces installation costs by permitting 1:1 generator sizing
- 3-phase hardwire (220/380V, 230/400V or 240/415V AC, 3-phase, 4-wire + ground, wye) input/output
- IGBT technology and zero transfer time, on-line, double-conversion operation
- Runtime is expandable with the addition of two SURBC2030 internal battery packs or via external battery cabinet options

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OVERVIEW

FEATURES

PACKAGE INCLUDES

Features

- 1+1 configuration: Two SU20KX can be connected in parallel to provide either fail-safe redundancy or increased capacity
- Low THDi (less than 3%) reduces installation costs by allowing 1:1 generator sizing
- Extremely efficient operation (up to 97%) saves money by reducing electricity consumption
- True on-line, double-conversion UPS with IGBT technology provides pure sine wave AC output at all times
- Maintains continuous operation with zero transfer time through blackouts, voltage fluctuations and surges
- Removes harmonic distortion, electrical impulses, frequency variations and other hard-to-solve power problems
- 20,000VA/16,000W power capacity with 3-phase, hardwire input/output connections
- Wide input voltage correction range: 173-276V/300-477V AC
- Precision +/-1% output voltage regulation
- Internal power and battery modules are combined in a single small-footprint tower compartment. Typical half-load/full-load runtimes are 13 min./5.5 min. Battery runtime can be extended with optional stand-alone hardwired external battery modules (Models BP480V26B and BP480V40C, available separately)
- Front panel combination LCD/LED display includes a real-time event log screen with up to 500 events listed
- Dynamic battery management screen optimizes battery function to lengthen service life and allow cold restart of the UPS
- Built-in RS-232 communication port works with included PowerAlert Software to provide shutdown commands and reporting on a single server
- Accessory slot accepts an optional internal SNMP card (Model SNMPWEBCARD) for remote shutdowns, reboots and more
- Emergency Power Off button turns UPS output OFF and disables Bypass output
- Built-in Emergency Power Off (EPO) dry-contact interface supports remote emergency shutdown in large facilities



(/company/environmental-statement)



SPECIFICATIONS

Specifications

OUTPUT

Output Volt Amp Capacity (VA)	20000
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Output kVA Capacity (kVA)	20
Output Watt Capacity (Watts)	16000
Output kW Capacity (kW)	16
Power Factor	0.8
Crest Factor	3:1
Nominal Output Voltage(s) Supported	220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye
Frequency Compatibility	50 / 60 Hz
Output Voltage Regulation (Line Mode)	+/-1%
Output Voltage Regulation (Battery Mode)	+/-1%
Output Receptacles	Hardwire
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave

INPUT

Rated input current (Maximum Load)	28A / 29A / 30A
Nominal Input Voltage(s) Supported	220/380V 3-PH Wye; 230/400V 3-PH Wye; 240/415V 3-PH Wye
Nominal Input Voltage Description	3-Phase Wye, 4 wire (L1, L2, L3, N, G)
UPS Input Connection Type	Hardwire
Input Phase	3-Phase

BATTERY

Full Load Runtime (min.)	5.5 min. (16kw)
Half Load Runtime (min.)	13 min. (8kw)
Expandable Battery Runtime	Supports extended runtime with optional external battery packs
External Battery Pack Compatibility	BP480V200; BP480V26B; BP480V300; BP480V400; BP480V40C; BP480V500
Expandable Runtime Description	External battery pack wiring is contractor supplied
DC System Voltage (VDC)	+/- 240VDC
Internal UPS Replacement Battery Cartridge	SURBC2030
Battery Replacement Description	Hot-swappable, replaceable batteries

Expandable Runtime	Yes
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VOLTAGE REGULATION

Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	Maintains continuous operation without using battery power during overvoltages to 276-477 (3-phase, 4-wire, wye), reducing output within 1% of nominal
Undervoltage Correction	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 173-300 (3-phase, 4-wire, wye)

USER INTERFACE, ALERTS & CONTROLS

Switches	ON button turns UPS inverter on. OFF button turns UPS inverter off. LCD Display Control Buttons browse through and select items displayed on LCD screen. EPO (Emergency Power Off) button turns UPS output off and disables Bypass output
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch
Audible Alarm	Alarms signal a variety of operational conditions: low-battery, overload, shutdown, bypass and more
LED Indicators	4-LED Display: Displays normal AC input, on battery power, bypass input and fault conditions

SURGE / NOISE SUPPRESSION

EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	5950
AC Suppression Response Time	Instantaneous

PHYSICAL

Installation Form Factors Supported with Included Accessories	Tower
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, cm)	116.8 x 52.1 x 85.6
Maximum Device Depth (cm)	0

UPS Power Module Weight (kg)	267.2
UPS Shipping Dimensions (hwd / cm)	139.7 x 72.4 x 108
Shipping Weight (kg)	335.3
Cooling Method	Fans
UPS Housing Material	Steel

ENVIRONMENTAL

Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	3053

COMMUNICATIONS

Communications Interface	DB9 Serial; Slot for SNMP/Web interface
PowerAlert Software	Included
Communications Cable	DB9 cabling included

LINE / BATTERY TRANSFER

Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Low Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation without using battery power during brownout/undervoltage conditions to 173-300V AC (3-phase, 4-wire, wye). Below this point, output is maintained utilizing reserve battery power
High Voltage Transfer to Battery Power (Setpoint)	Maintains continuous operation without using battery power during overvoltages to 276-477V AC (3-phase, 4-wire, wye), reducing output within 1% of nominal. Above this point, output is maintained utilizing reserve battery power

SPECIAL FEATURES

Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic inverter bypass; Hot swappable batteries

Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
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CERTIFICATIONS

UPS Certifications	CE
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WARRANTY

Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	1-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty

ACCESSORIES

SIMILAR PRODUCTS

Accessories

UPS BATTERY PACKS



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BP480V26B

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 External Battery Pack for select Tripp Lite 3-Phase UPS Systems (BP480V26B)

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BP480V40C

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 External Battery Pack for select Tripp Lite 3-Phase UPS Systems (BP480V40C)

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External Battery Pack for select Tripp Lite 3-Phase UPS Systems (BP480V200)

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External Battery Pack for select Tripp Lite 3-Phase UPS Systems (BP480V400)

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UPS ACCESSORIES

POWER MANAGEMENT SOFTWARE & HARDWARE

RESOURCES

Documentation

- Owner's Manual for 3-Phase UPS Systems 9332D1 (Multi-language) (<http://www.tripplite.com/shared/techdoc/Owners-Manual/9332D1.pdf>)
- SU20KX runtime chart (<http://www.tripplite.com/shared/techdoc/Runtime-Chart/SU20KX-Runtime-Chart-EN.pdf>)

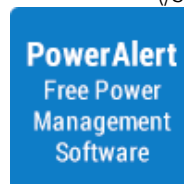
Product Literature

- UPS Systems 120V Brochure 953426 (English)


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- UPS 230V Brochure 953431 (English) (//www.tripplite.com/shared/literature/Brochure/Uninterrupted-Power-Source-Brochure-230V.pdf) 
- Integrated Solutions Brochure 9533AD (English) (//www.tripplite.com/shared/literature/Brochure/Tripp-Lite-Integrated-Solutions-Brochure-9533AD-EN-Domestic.pdf) 
- Common Power Problems and Power Protection Solutions White Paper 120v (English) (//www.tripplite.com/shared/literature/White-Paper/Common-Power-Problems-and-Power-Protection-Solutions-White-Paper-EN.pdf) 
- SmartOnline 3-Phase UPS Systems Brochure 9533E5 (English) (//www.tripplite.com/shared/literature/Brochure/SmartOnline-3-Phase-UPS-Systems-Brochure-95-33E5-English.PDF) 
- Common Power Problems and Power Protection Solutions White Paper 230v (English) (//www.tripplite.com/shared/literature/White-Paper/Common-Power-Problems-and-Power-Protection-Solutions-White-Paper-230v-EN.pdf) 

Case Studies

- Mercy Ships Hospital Case Study (English) (//www.tripplite.com/shared/other/case-study/Mercy-Ships-Hospital-Case-Study-EN.pdf) 
- Maison de la Litterie's Case Study - IT Infrastructure Protection (English) (//www.tripplite.com/shared/other/case-study/Maison-de-la-Literies-Case-Study.pdf) 

Useful Web Pages

- UPS Systems Buying Guide (//www.tripplite.com/products/ups-buying-guide) 
- Single-Phase vs. 3-Phase Power (//www.tripplite.com/products/single-vs3-phase) 
- Custom Products from Tripp Lite Are One Call Away (//www.tripplite.com/products/custom-products) 
- Economy Mode Explained (//www.tripplite.com/products/economy-mode) 
- Top 12 Questions to Consider When Choosing UPS Systems for Network/Server Applications (//www.tripplite.com/support/articles/articleid/top-12-questions-when-choosing-a-network-ups) 
- UPS Sizing (//www.tripplite.com/products/ups-sizing) 

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TRIPP LITE MIDDLE EAST AND AFRICA

LOB #5, Ground Floor #19, P.O. Box 18030, Jebel Ali Free Zone
Dubai, United Arab Emirates

+971.4.887.1633

+971.4.887.1494

[salesint@tripplite.com \(mailto:salesint@tripplite.com\)](mailto:salesint@tripplite.com)

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